

**Material Testing Machines - Single Column Bench Mounted**

Lloyd Instruments offers a range of affordable single column test machines for a wide variety to test applications up to 5 kN (1124 lbf). All machines are capable of tensile, compression, flexural, peel, shear, friction testing and more. Flexible, easy to use and maintain, they offer high accuracy position measurement, rapid data acquisition, multi-lingual and multi-unit display options as well as full PC integration with NEXYGENPlus material test and data analysis software.

Two different measuring range available for LRX series:

- **LRX** (Maximum 2.5kN)
- **LRX Plus** (Maximum 5kN)
- **LF Plus** (Maximum 1kN)



**LRX**



**LRX Plus**



**LF Plus**

Model	LRX	LRX Plus	LF Plus
Standard force range	2.5kN 600lbf 250kgf	5kN 1124lbf 500kgf	1kN 225lbf 100kgf
Force accuracy (system)	Meet the following international standards: BS EN ISO 7500:1999, Class 0.5 or Class 1, ASTM E4, DIN51221. Load cell accuracy: <0.5%		
Load cell (Optional)	5N, 10N, 20N, 50N, 100N, 250N, 500N, 1000N, 2500N, 5000N		
Load cell accuracy	<0.5%		
Travel Range	750 mm (29.53 in)	735mm (28.94 in)	LF-Plus: 500mm (19.69in)  LF-Plus extended: 750mm(29.53 in)
Extension Resolution	<1µm	<0.1µm	<1.3µm
Data Sampling Rate	40Hz	8kHz	8kHz
Crosshead speed range	0.01- 1016mm/min 0.0004-40.16in/min		0.05-1270mm/min
Speed accuracy	<0.2%		
Cycling	Cycling test between limits of force or travel range		
Software (Optional)	NEXYGEN PLUS Material Test and Data Analysis Software		
Supply voltage	220/240V or 110/120V AC, 50/60Hz		
Temperature	Operating temperature: 5°C-35°C Storage temperature: -20°C-55°C		
Weight	54kg	50kg	46kg



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**Material Testing Machines - Twin Column Bench Mounted**

For applications in the mid force range, Lloyd Instruments offers a wide range of testing machines and accessories for forces up to 50 kN (11241 lbf). Ideal for routine quality control testing or complex multi-stage tests, all machines can perform tensile, compression, flexural, peel, shear, friction tests and many more. Flexible, simple to use and maintain, they provide high accuracy load measurement and are capable of a rapid 8 kHz data acquisition rate. The stand alone system can store up to 600 test results from 10 programmable test set-ups or, with PC integration with Lloyd Instruments powerful NEXYGENPlus material test and data analysis software, can perform advanced data analysis.



**LR5K Plus**



**LR30K Plus**



**EZ20**

Model	LR5K Plus	LR10K Plus	LR30K Plus	EZ20
Range	5kN (1124lbf)	10kN (2248lbf)	30kN(6744lbf)	20kN(4496lbf)
Load cell (Optional)	5N, 10N, 20N, 50N, 100N, 250N, 500N, 1kN, 2.5kN, 5kN, 10kN, 20kN, 30kN			
Crosshead speed	0.01-1020mm/min /0.0004-40.16in/min	0.01-510mm/min /0.0004-20.08in/min	0.01-510mm/min /0.0004-20.08in/min	10kN-20kN: 0.1-500mm/min 0N-10kN: 0.1-1020mm/min
Speed accuracy	<0.2%			
Travel Range	975mm(38.39in)	950mm(37.40in)	870mm(34.25)	
Load cell accuracy	<0.5%			
Extension resolution	<0.1µm			
Data Sampling Rate	8kHz			
Extensometer (Optional)	Non-contacting laser extensometer, contacting extensometer			
Software (Optional)	NEXYGEN PLUS Material Test and Data Analysis Software			
Weight	105kg		125kg	150kg
Supply voltage	220/240V or 110/120V AC, 50/60Hz			



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